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SSSSSSSS SSSSSSSS CCCCCCCC CCCCCCCC RRRRRRRR RRRRRRRR ZZZZZZZZ ZZZZZZZZ AAAA AAAA PPPPPP PPPPPP SSSSSSSS SSSSSSSS IIIIII IIIIII NN NN  
SSSSSSSS SSSSSSSS CC CC RR RR AA AA PP PP SS SS IIIIII IIIIII NN NN  
SSSSSSSS CC CC RR RR AA AA PP PP SS SS IIIIII IIIIII NN NN  
SSSSSSSS CC CC RR RR AA AA PP PP SS SS IIIIII IIIIII NNNN NNNN  
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SSSSSSSS CC CC RRRRRRRR ZZ ZZ AA AA PPPPPP PPPPPP SSSSSSSS SSSSSSSS IIIIII IIIIII NN NN NN  
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SSSSSSSS CCCCCCCC RR RR ZZZZZZZZ ZZZZZZZZ AAAA AAAA PP PP SSSSSSSS SSSSSSSS IIIIII IIIIII NN NN

1 0001 0 XTITLE 'EDT\$SCRZAPSIN - Mark Lines to be repainted'  
2 0002 0 MODULE EDT\$SCRZAPSIN ( ! Mark Lines to be repainted  
3 IDENT = 'V04-000' ! File: SCRZAPSIN.BLI Edit: JBS2012  
4 ) =  
5 0005 1 BEGIN  
6 0006 1  
7 0007 1 \*\*\*\*\*  
8 0008 1 \*  
9 0009 1 \* COPYRIGHT (c) 1978, 1980, 1982, 1984 BY  
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28 0028 1 \*\*\*\*\*  
29 0029 1  
30 0030 1  
31 0031 1 \*\*  
32 0032 1 FACILITY: EDT -- The DEC Standard Editor  
33 0033 1  
34 0034 1 ABSTRACT:  
35 0035 1  
36 0036 1 This module marks screen lines for repaint  
37 0037 1  
38 0038 1 ENVIRONMENT: Runs at any access mode - AST reentrant  
39 0039 1  
40 0040 1 AUTHOR: Bob Kuhlis, CREATION DATE: September 8, 1979  
41 0041 1  
42 0042 1 MODIFIED BY:  
43 0043 1  
44 0044 1 2-001 - Original. SMB 20-Sep-1982. This module is a complete  
45 0045 1 rewrite of the old SCRZAPSIN module.  
46 0046 1 2-002 - Modify to use new 48 bit macro. STS 01-Oct-1982  
47 0047 1 2-003 - Modify to mark screen pointers for repaint. SMB 08-Oct-1982  
48 0048 1 2-004 - Fix up the format a little. SMB 10-Oct-1982  
49 0049 1 2-005 - Put deleted lines on the free list. JBS 24-Oct-1982  
50 0050 1 2-006 - Maintain the various screen pointers. JBS 24-Oct-1982  
51 0051 1 2-007 - Don't check on EDT\$SA\_CUR SCR PTR. JBS 25-Oct-1982  
52 0052 1 2-008 - Call SC\_LNDEL instead of hard coding delete lines. SMB 26-Oct-1982  
53 0053 1 2-009 - Maintain SCR EDIT MINPOS. JBS 27-Oct-1982  
54 0054 1 2-010 - Add the third parameter. JBS 09-Nov-1982  
55 0055 1 2-011 - Remove the edit buffer. JBS 27-Dec-1982  
56 0056 1 2-012 - Add two more parameters. JBS 27-Dec-1982  
57 0057 1 --

EDT\$SCRZAPSIN    EDT\$SCRZAPSIN - Mark Lines to be repainted  
VO4-000

: 58            0058 1

{  
16-Sep-1984 01:49:52  
14-Sep-1984 12:24:44

VAX-11 Bliss-32 V4.0-742  
[EDT.SRC]SCRZAPSIN.BLI;1

Page 2  
(1)

E  
V

```
60      0059 1 %SBTTL 'Declarations'  
61      0060 1  
62      0061 1 TABLE OF CONTENTS:  
63      0062 1  
64      0063 1  
65      0064 1 REQUIRE 'EDTSRC:TRAROUNAM';  
66      0503 1  
67      0504 1 FORWARD ROUTINE  
68      0505 1     EDTSSC_REPAINT : NOVALUE;  
69      0506 1  
70      0507 1  
71      0508 1 INCLUDE FILES:  
72      0509 1 !  
73      0510 1  
74      0511 1 REQUIRE 'EDTSRC:EDTREQ';  
75      0646 1  
76      0647 1  
77      0648 1 MACROS:  
78      0649 1  
79      0650 1     NONE  
80      0651 1  
81      0652 1 EQUATED SYMBOLS:  
82      0653 1  
83      0654 1     NONE  
84      0655 1  
85      0656 1 OWN STORAGE:  
86      0657 1  
87      0658 1     NONE  
88      0659 1  
89      0660 1 EXTERNAL REFERENCES:  
90      0661 1  
91      0662 1     In the routine
```

```
93      0663 1 %SBTTL 'EDT$$$C_REPAINT - mark screen lines for repaint'
94      0664 1
95      0665 1 GLOBAL ROUTINE EDT$$$C_REPAINT (           ! Mark screen lines for repaint
96          FIRST,                                ! First line to clear
97          LAST,                                 ! Last line to clear
98          MINPOS,                             ! First position modified
99          MAXPOS,                            ! Last position modified
100         INSDEL FLAG                      ! Flag for handling of inserted and deleted lines
101         ) : NOVALUE =
102
103         ++
104         FUNCTIONAL DESCRIPTION:
105         This routine marks specified lines in the screen data structure for
106         repaint, indicating that those lines must be completely updated.
107
108         FORMAL PARAMETERS:
109         FIRST      The first line to repaint
110         LAST       The last line to repaint
111         MINPOS    First position modified, in first line
112         MAXPOS    Last position modified, in last line (if < 0, don't repaint the last line)
113         INSDEL_FLAG 0 = skip deleted and inserted lines,
114                           1 = free deleted lines, repaint inserted lines,
115                           -1 = should be no deleted or inserted lines
116
117         IMPLICIT INPUTS:
118         NONE
119
120         IMPLICIT OUTPUTS:
121         EDTSSA_FST_SCRPTR
122         EDTSSA_LST_SCRPTR
123
124         ROUTINE VALUE:
125         NONE
126
127         SIDE EFFECTS:
128         Marks the specified lines as modified.
129
130         --
131
132         BEGIN
133
134         MAP
135             FIRST : REF SCREEN_LINE,
136             LAST : REF SCREEN_LINE;
137
138         EXTERNAL ROUTINE
139             EDT$$$C_LNDEL:                      ! Delete a line from the structure
140
141
142
143
144
145
146
147
148
149
```

```
150      0720 2
151      0721 2
152      0722 2      EXTERNAL
153      0723 2          EDT$SA_FST_SCRPTR : REF SCREEN_LINE;    ! First screen pointer in the data base
154      0724 2          EDT$SA_LST_SCRPTR : REF SCREEN_LINE;    ! Last screen pointer in the data base
155      0725 2
156      0726 2      LOCAL
157      0727 2          NXT_SCRPTR : REF SCREEN_LINE;
158      0728 2          SCRptr : REF SCREEN_LINE;
159      0729 2          REPAINT_DONE;
160      0730 2          SCRptr = .FIRST;
161      0731 2          REPAINT_DONE = 0;
162      0732 2
163      0733 2      + Update the lines for repaint until the last line is seen.
164      0734 2      Deleted lines, however, are put on the free list if so requested.
165      0735 2
166      0736 2
167      0737 2      WHILE (( NOT .REPAINT_DONE) AND (.SCRptr NEQA 0)) DO
168      0738 3          BEGIN
169      0739 3
170      0740 4          IF ((.SCRptr [SCR_EDIT_FLAGS] AND (SCR_EDIT_INSLN OR SCR_EDIT_DELLN)) NEQ 0)
171      0741 3          THEN
172      0742 4              BEGIN
173      0743 4
174      0744 4              CASE .INSDEL_FLAG FROM 0 TO 1 OF
175      0745 4                  SET
176      0746 4
177      0747 4                  [0] :                      ! Skip over deleted and inserted lines
178      0748 5                      BEGIN
179      0749 5                          NXT_SCRPTR = .SCRptr [SCR_NXT_LINE];
180      0750 5
181      0751 5                          IF (.SCRptr EQA .LAST) THEN REPAINT_DONE = 1 ELSE SCRptr = .NXT_SCRPTR;
182      0752 5
183      0753 4
184      0754 4
185      0755 4                  [1] :                      ! Free deleted lines, mark inserted lines for repaint
186      0756 5
187      0757 5                      BEGIN
188      0758 5                          NXT_SCRPTR = .SCRptr [SCR_NXT_LINE];
189      0759 6
190      0760 5                      IF ((.SCRptr [SCR_EDIT_FLAGS] AND SCR_EDIT_DELLN) NEQ 0)
191      0761 6
192      0762 6                      BEGIN
193      0763 6
194      0764 6      + The first and last cells had better not have been set to zero.
195      0765 6
196      0766 6
197      0767 6
198      0768 6
199      0769 5
200      0770 6
201      0771 6
202      0772 6
203      0773 5
204      0774 5
205      0775 5
206      0776 5      ELSE
207      0777 5
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```

207      0777 4           END;
208      0778 4
209      0779 4           [OUTRANGE];
210      0780 4           ASSERT (0);
211      0781 4           TES;
212      0782 4
213      0783 4           END
214      0784 3           ELSE BEGIN
215      0785 4
216      0786 4
217      0787 5           IF (.SCRPTR EQA .FIRST)
218      0788 4           THEN SCRptr [SCR_EDIT_MINPOS] = MINU (.SCRptr [SCR_EDIT_MINPOS], .MINPOS)
219      0789 4           ELSE SCRptr [SCR_EDIT_MINPOS] = 0;
220      0790 4
221      0791 4
222      0792 4
223      0793 5           IF ((.SCRptr EQA .LAST) AND (.MAXPOS GEQ 0))
224      0794 4           THEN SCRptr [SCR_EDIT_MAXPOS] = MAXU (.SCRptr [SCR_EDIT_MAXPOS], .MAXPOS)
225      0795 4           ELSE SCRptr [SCR_EDIT_MAXPOS] = 255;
226      0796 4
227      0797 4
228      0798 4
229      0799 5           IF ((.SCRptr NEQA .LAST) OR (.MAXPOS GEQ 0))
230      0800 4           THEN SCRptr [SCR_EDIT_FLAGS] = .SCRptr [SCR_EDIT_FLAGS] OR SCR_EDIT MODIFY;
231      0801 4
232      0802 4
233      0803 4           IF (.SCRptr EQA .LAST) THEN REPAINT_DONE = 1 ELSE SCRptr = .SCRptr [SCR_NXT_LINE];
234      0804 4
235      0805 3           END;
236      0806 3
237      0807 2           END;
238      0808 2
239      0809 1           END;

                                         ! of routine EDT$$SC_REPAINT

```

```

.TITLE EDT$SCRZAPSIN EDT$SCRZAPSIN - Mark lines to be
                                repainted
.IDENT \V04-000\
```

```

.EXTRN EDT$$SC_LNDEL, EDT$$SA_FST_SCRPTR
.EXTRN EDT$$SA_ST_SCRPTR
.EXTRN EDT$$INTER_ERR
```

```
.PSECT _EDTSCODE,NOWRT, SHR, PIC,2
```

<pre> 55 00000000G 00 003C 00000 52          04  AC  D0 00009                   53  D4 0000D 01          53  E9 0000F 1\$:    04 00012                   52  D5 00013 2\$:    01 12 00015                   04 00017 06          0D  A2  93 00018 3\$:    04 00017                   51  13 0001C 01          00  14  AC  CF 0001E </pre>	<pre> .ENTRY EDT\$\$SC_REPAINT, Save R2,R3,R4,R5 : 0665 MOVAB EDT\$\$INTER_ERR, R5 MOVL FIRST, SCRptr CLRL REPAINT_DONE BLBC REPAINT_DONE, 2\$ RET TSTL SCRptr BNEQ 3\$ RET BITB 13(SCRptr), #6 BEQL 11\$ CASEL INSDEL_FLAG, #0, #1 </pre>	<pre> : 0730 : 0731 : 0737 : 0740 : 0744 </pre>
---	--	---

EDT\$SCRZAPSIN  
V04-000EDT\$SCRZAPSIN - Mark lines to be repainted  
EDT\$SSC\_REPAINT - mark screen lines for repain

N 2

16-Sep-1984 01:49:52  
14-Sep-1984 12:24:44VAX-11 Bliss-32 v4.0-742  
[EDT.SRC]SCRZAPSIN.BLI;1Page 7  
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		000F	0009	00023 4\$:	.WORD	5\$-4\$,-		
		65	00	FB 00027	CALLS	6\$-4\$ #0, EDT\$INTER_ERR		
		54	04	A2 0002A	BRB	1\$	0780	
		54	04	A2 00030	MOVL	4(SCRPTR), NXT_SCRPTR	0744	
		21 0D A2	04	A2 00032	BRB	9\$	0749	
		54	02	E1 00036	MOVL	4(SCRPTR), NXT_SCRPTR	0751	
		00000000G 00	52	DD 0003B	BBC	#2, 13(SCRPTR), 8\$	0757	
		00000000G 00	01	FB 0003D	PUSHL	SCRPTR	0759	
		65	00	FB 00044	CALLS	#1, EDT\$SSC_LNDEL	0762	
		00000000G 00	03	12 0004A	TSTL	ED\$SA_LST_SCRPTR	0766	
		65	00	FB 0004C	BNEQ	7\$	0767	
		00000000G 00	00	D5 0004F	CALLS	#0, EDT\$INTER_ERR		
		65	00	12 00055	TSTL	ED\$SA_FST_SCRPTR	0767	
		65	00	FB 00057	BNEQ	9\$		
		OD A2	08	11 0005A	CALLS	#0, EDT\$INTER_ERR		
		OD A2	02	8A 0005C	BRB	9\$	0759	
		OD A2	01	88 00060	BICB2	#2, 13(SCRPTR)	0771	
		08 AC	52	D1 00064	BISB2	#1, 13(SCRPTR)	0772	
			58	13 00068	CMPL	SCRPTR, LAST	0775	
		52	54	00 006A	BEQL	20\$		
		04 AC	A0	11 0006D	MOVL	NXT_SCRPTR, SCRPTR	0744	
		04 AC	52	D1 0006F	BRB	1\$	0787	
		04 AC	14	12 00073	CMPL	SCRPTR, FIRST		
		0C AC	08	A2 9A 00075	BNEQ	13\$		
		0C AC	50	D1 00079	MOVZBL	11(SCRPTR), R0	0789	
		0C AC	04	1B 0007D	CMPL	R0, MINPOS		
		OB A2	0C	AC 0007F	BLEQU	12\$		
		OB A2	50	90 00083	MOVL	MINPOS, R0		
		OB A2	03	11 00087	MOVB	R0, 11(SCRPTR)		
		OB A2	08	A2 94 00089	BRB	14\$	0791	
		OB A2	51	D4 0008C	CLRB	11(SCRPTR)	0793	
		08 AC	52	D1 0008E	CLRL	R1		
		08 AC	18	12 00092	CMPL	SCRPTR, LAST		
			51	D6 00094	BNEQ	16\$		
			10	AC D5 00096	INCL	R1		
			14	19 00099	TSTL	MAXPOS		
		10 50 AC	0C	A2 9A 0009B	BLSS	16\$		
		10 50 AC	50	D1 0009F	MOVZBL	12(SCRPTR), R0	0795	
		10 50 AC	04	1E 000A3	CMPL	R0, MAXPOS		
		0C A2	10	AC D0 000A5	BGEQU	15\$		
		0C A2	50	90 000A9	MOVL	MAXPOS, R0		
		0C A2	04	11 000AD	MOVB	R0, 12(SCRPTR)		
		0C A2	01	8E 000AF	BRB	17\$		
		08 AC	52	D1 000B3	MNEG8	#1, 12(SCRPTR)	0797	
		08 AC	05	12 000B7	CMPL	SCRPTR, LAST	0799	
			10	AC D5 000B9	BNEQ	18\$		
			04	19 000BC	TSTL	MAXPOS		
		OD A2	01	88 000BE	BLSS	19\$		
		05 53	51	E9 000C2	MOVZBL	#1, 13(SCRPTR)	0801	
		53	01	D0 000C5	BLBC	R1, 21\$	0803	
		52	04	A3 11 000C8	MOVL	#1, REPAINT_DONE		
		52	04	A2 D0 000CA	BRB	10\$		
			9D	11 000CE	MOVL	4(SCRPTR), SCRPTR		
			04	000D0	BRB	10\$	0737	
					RET		0809	

EDT\$SCRZAPSIN    EDT\$SCRZAPSIN - Mark lines to be repainted    16-Sep-1984 01:49:52    8 3  
V04-000            EDT\$\$SC\_REPAINT - mark screen lines for repain 14-Sep-1984 12:24:44    VAX-11 Bliss-32 V4.0-742  
[EDT.SRC]SCRZAPSIN.BLI;1

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(3)

: Routine Size: 209 bytes,    Routine Base: \_EDT\$CODE + 0000

: 240            0810 1  
: 241            0811 1 !<BLF/PAG:>

C 3  
EDT\$SCRZAPSIN EDT\$SCRZAPSIN - Mark lines to be repainted 16-Sep-1984 01:49:52 VAX-11 Bliss-32 v4.0-742  
V04-000 EDT\$SSC\_REPAINT - mark screen lines for repain 14-Sep-1984 12:24:44 [EDT.SRC]SCRZAPSIN.BLI;1  
: 243 0812 1 END : of module EDT\$SCRZAPSIN  
: 244 0813 1  
: 245 0814 0 ELUDOM

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#### PSECT SUMMARY

Name	Bytes	Attributes
_EDT\$CODE	209	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

#### Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
-\$255\$DUA28:[EDT.SRC]EDT.L32;1	377	15	3	40	00:00.2
-\$255\$DUA28:[EDT.SRC]PSECTS.L32;1	2	1	50	7	00:00.1

#### COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACEBACK/LIS=LIS\$:SCRZAPSIN/OBJ=OBJ\$:SCRZAPSIN MSRC\$:SCRZAPSIN.BLI/UPDATE=(ENH\$:  
CRZAPSIN)

Size: 209 code + 0 data bytes  
Run Time: 00:16.2  
Elapsed Time: 00:19.0  
Lines/CPU Min: 3007  
Lexemes/CPU-Min: 11116  
Memory Used: 115 pages  
Compilation Complete

0140 AH-BT13A-SE  
VAX/VMS V4.0

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SCRUPDATM  
LIS

STARTDT  
LIS

TISAVE  
LIS

SETCOMMAN  
LIS

TIAUTO  
LIS

TIDELETE  
LIS

TILINE  
LIS

TRACEMAC  
LIS

UFBUFFER  
LIS

SCRZAPSIN  
LIS

SCRUPDATN  
LIS

TITYPAHD  
LIS

TSTKEYDEF  
LIS

SUPPORTS  
LIS

TICLRAUD  
LIS

TRAROUNAM  
LIS

TICHAR  
LIS

TIECHO  
LIS

TRANSLATE  
LIS

UFSTRING  
LIS

SYSVAX  
LIS

TRACELIT  
LIS

UCVTCASE  
LIS

SCRWID  
LIS